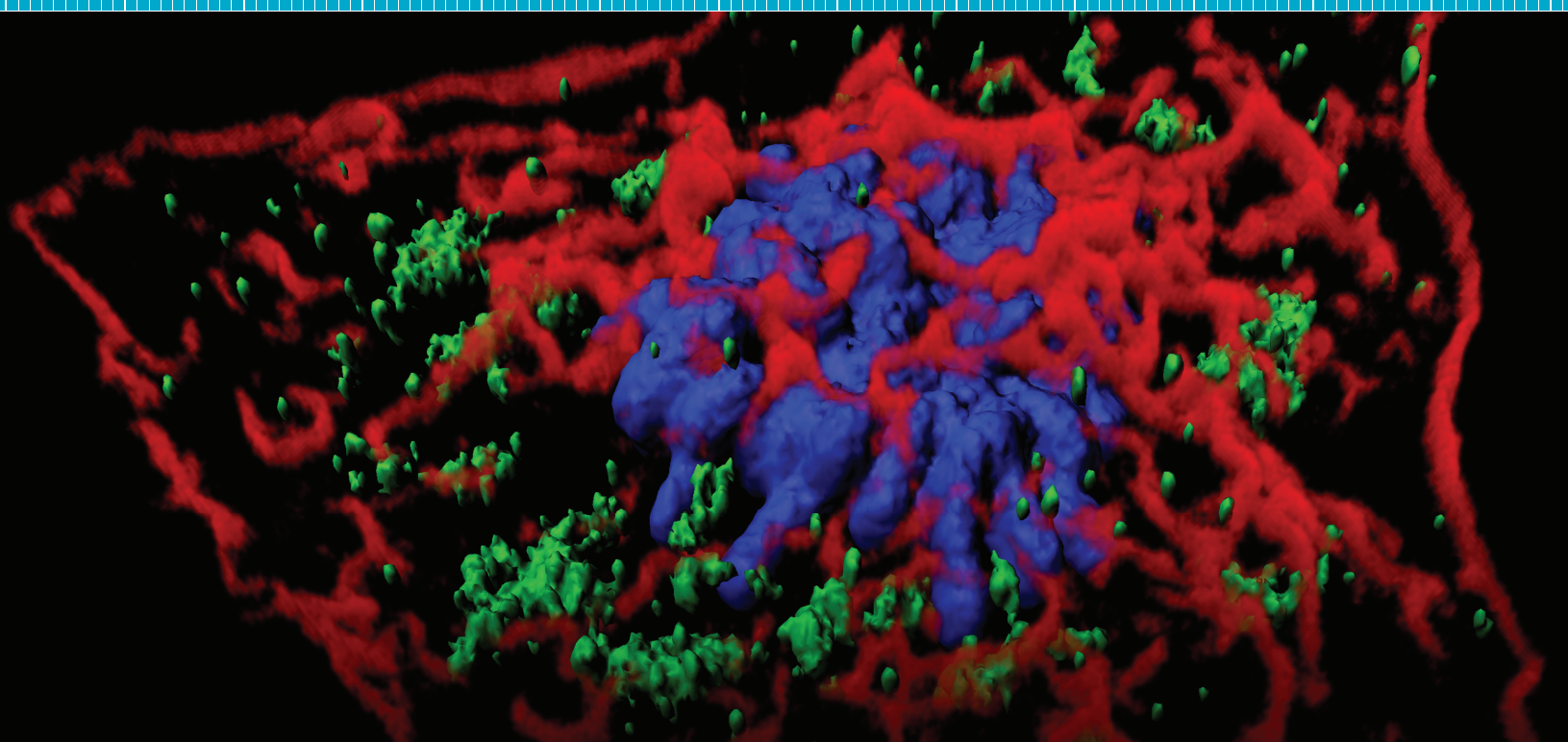


Imaris

Leading Image Processing Solutions for the
Life Sciences



At the cutting edge of 3D and 4D interactive analysis and
visualization since 1993

Imaris is Bitplane's core scientific software module that delivers all the necessary functionality for **data visualization, segmentation, analysis and interpretation** of 3D and 4D microscopy datasets. Combining speed, precision and ease-of-use, **Imaris** provides a complete set of features for working with three- and four-dimensional multi-channel images of any size, from a few megabytes to several gigabytes in.

Imaris delivers all the necessary functionality for interpreting cellular and molecular patterns present in your sample that were revealed by light microscopy. With **Imaris** you can:

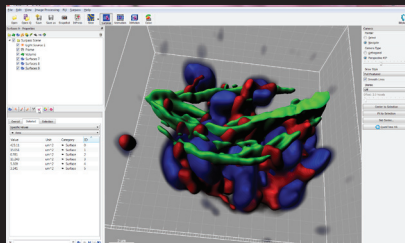
- Visualize volume images and objects in real time using a rich selection of rendering modes.
- Automatically or manually identify objects based on morphology, intensity, size and many more parameters.
- Validate segmentation by superimposing objects on the original volume image.
- Interact dynamically with individual objects.
- Create the most impressive pictures, animations and stunning movies for your publication with just a few mouse clicks.

Imaris' rendering quality, speed, precision and interactivity are unrivalled. With a large variety of segmentation options, **Imaris** provides you with the most effective tools to segment even the toughest datasets to identify, separate and visualize individual objects. Interface of **Imaris** has been carefully designed by scientists for scientists who want to spend their time doing research, not mastering their imaging software. Visualization capabilities of **Imaris** are further enhanced by a range of additional analytical companion modules to provide the researcher with an impressive range of analytical and annotating tools and options.

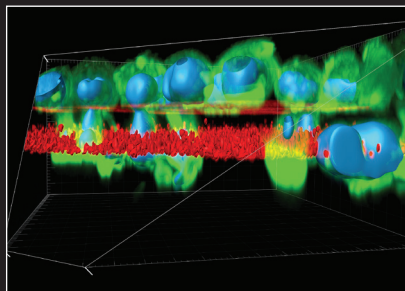
Main Image: Leveraging current hardware technology, Imaris renders the most complex structures in real time. This fascinating image has been created using mixed volume and surface rendering.

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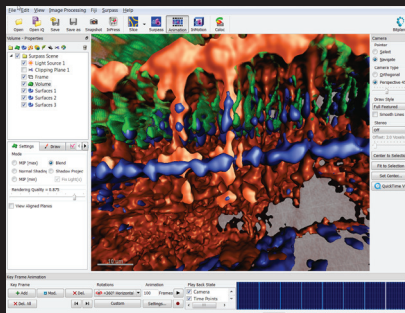
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The **surpass** view contains object statistics (bottom left panel), 3D view (main panel) and an object properties dialog (top left). The frame object provides a customizable scale and size reference. Users have complete control over color, shading, reflection and transparency. Red channel: labeled kinetochores; green channel: tubulin; blue channel: DAPI.



In this image, clipping and lighting are used to highlight the various layers in the triple-stained sample. Clipping plane allows insight into the inside of the sample that would otherwise stay hidden.



Making movies is easy with the Key Frame Animation tool bar, shown here with a few key frames of a 3D+time data set of dynamically changing spines on a dendrite. Select the working view and click "Add" to designate a key frame. Key frames can be copied, edited, and re-sequenced. Several preview and recording options are available.

Your Benefits

Premier Volume Rendering - use MIP, blend and shadow projections to produce exceptional 3D and 4D images. Manage colors, reflections, shading and transparency of objects in real time.

Surface and Spot Object Segmentation and Interaction - generate and identify multiple objects using isosurfaces based on local maxima, split touching objects, use orthogonal planes to cut through the plane of interest and apply "magic wand" to create surfaces semi-automatically.

Interactive and Intuitive Navigation - rotate, zoom in and out of the object and fly through the volume in real-time. Enhance 3D interaction with "InMotion", a depth cueing tool that is unique in the microscopy market.

Image handling of huge datasets - Imaris works with images of 50 GB or more. Load, open and render huge sets instantaneously and easily process them in Imaris where other programs fail.

Key Frame Animation - create precise, convincing animations, storyboards and QuickTime-VR animations for your presentations - simple rotations to complex fly-throughs can be transformed into a smooth, animated movie.

Get results with Imaris

Imaris has been the primary tool for image visualization and analysis since its launch in 1993. With over 30 readable file formats it can visualize and analyze images from most confocal setups on the market.

Easy to learn. Simple to use. Powerful.

Imaris enables rapid, real-time interactive inspection of your data sets with a vast array of image view tools. With its capability to work with 50+ GB images and a range of intuitive image processing functions, Imaris is ideally suited to challenging image analyses spanning from anatomy through cell biology, neuroscience and electron microscopy.

The speed and performance of Imaris is enhanced through the use of advanced computer graphics and multithreading technology to deliver real-time image handling and analysis.

Interactive Vision in the Life Sciences

A key strength of Imaris is its usability. Automation and hidden image processing intelligence allows users to focus on experiments and not on the technicalities of the software. Imaris also provides the necessary tools to edit datasets manually if more control is required. By delivering leading edge innovations such as real-time object detection and tracking, automated filament structure analysis and visualization, analysis of cells and their intracellular components, and many more, Imaris expands your analytical capabilities. With dedicated modules to address daily challenges in life science imaging you can take your research to the next dimension.

Imaris MeasurementPro, FilamentTracer, ImarisCell, ImarisTrack, Imaris InPress, ImarisXT, ImarisBatch and ImarisColoc

Imaris and its modules constitute a 3D and 4D imaging software suite that is unmatched in the market today. When you rely on the accuracy and integrity of your 3D/4D imaging data, the right choice is Imaris.

Email us at: welcome@bitplane.com

www.bitplane.com

America

Bitplane Inc.
425 Sullivan Avenue
Suite #3, South Windsor
CT 06074, USA
Tel: 1 (860) 290-9211
Email: ussales@bitplane.com

International

Bitplane AG
Badenerstrasse 682
CH-8048 Zürich
Phone: +41 1 430 11 00
Fax: +41 1 430 11 01
Email: sales@bitplane.com

Operating system requirement

Imaris runs on PCs with Microsoft (R) Windows (R) XP, Vista, 7 (32 and 64-bit) and MacOS (10.5 or later) .

Windows systems - we recommend using 64-bit OS with 8GB RAM, 3 GHz (or faster) dual-core CPU with 64-bit support.

Mac systems - we recommend using Intel 2.2 GHz (or faster) CPU and 8GB RAM

Graphics boards - ATI/nVidia graphics card with 512 MB RAM. For full list of supported hardware please visit <http://www.bitplane.com/go/support/system-requirements>